

ABSTRACT OF THE DISCLOSURE

The invention relates to polymers whose water solubility may be triggered by changes in pH, salt concentration, concentration of surfactant or a combination of both. The polymer is a copolymer 5 or terpolymer containing from 2 to 60 mole percent of an amine functionality that has been neutralized with a fixed acid. Specifically films formed from these polymers will be insoluble at a higher pH, but will become soluble at a lower pH. The polymers are also insoluble at a higher salt concentration, but become soluble at a lower salt concentration. The polymers can be used to coat or encapsulate active ingredients, that are released based on changes in the environment, such as in the rinse cycle 10 of a dishwasher or laundry washing machine.